

202
8.3
HW

421-422 13-19, 22, 25, 28, 29

13. yes both pairs opp \angle s \cong

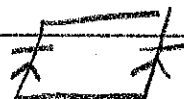
14. yes diagonals bis. each other



15. yes both pairs opp \angle s \cong



16. no



17. yes one pair of opp sides \cong + //

18. no



19. $2x = 5x - 18$

$-3x = -18$

$x = 6$

$3y = 96 - y$

$4y = 96$ $y = 24$

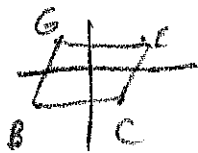
rest on back

22. $25x = 100$

$x = 4$

$10y = 40$

$y = 4$



25. $B(-6, -3)$ $C(2, -3)$ $E(4, 4)$ $G(-4, 4)$

slope
 \overline{GE} $m = \frac{4-4}{-4-4} = \frac{0}{-8} = 0$ \overline{GB} $m = \frac{4-(-3)}{-4-(-6)} = \frac{7}{2}$

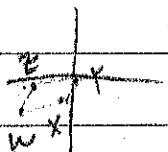
\overline{BC} $m = \frac{-3-(-3)}{2-(-6)} = \frac{0}{8} = 0$ \overline{EC} $m = \frac{4-(-3)}{4-2} = \frac{7}{2}$

$\overline{GE} \parallel \overline{BC}$

$\overline{GB} \parallel \overline{EC}$

$GECB$ is \square b/c def of \square

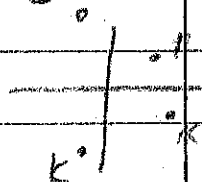
28. $W(-6, -5)$ $X(-1, -4)$ $Y(0, -1)$ $Z(-5, -2)$ Midpt



\overline{WY} $M\left(\frac{-6+0}{2}, \frac{-5+(-1)}{2}\right)$ \overline{XZ} $M\left(\frac{-1+(-5)}{2}, \frac{-4+(-2)}{2}\right)$
 $M(-3, -3)$ $M(-3, -3)$

$WXYZ$ is \square b/c diagonals bis each other

29. $G(-2, 8)$ $H(4, 4)$ $J(6, -3)$ $K(-1, -7)$ dist & slope



\overline{GH} $m = \frac{4-8}{-2-4} = \frac{-4}{-6} = \frac{2}{3}$

Not \parallel

\overline{JK} $m = \frac{-7-(-3)}{-1-6} = \frac{-4}{-7} = \frac{4}{7}$

Not a \square